CLAIMS

1. An anti-NAIP monoclonal antibody recognizing a human apoptosis inhibitory protein NAIP having the amino acid sequence of SEQ ID NO: 1, which is produced from hybridoma prepared by fusing a myeloma cell line with antibody-producing cell of mammal immunized by antigen containing a polypeptide which comprises amino acid sequence of the 256-586th, the 841-1052nd or parts thereof in SEQ ID NO: 1

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- 10 2. Anti-NAIP monoclonal antibody hnmc365, which is produced from hybridoma 656-1 (FERM BP-6919), and its epitope is the 354-365th region in SEQ ID NO: 1.
 - 3. Anti-NAIP monoclonal antibody hnmc381, which is produced from hybridoma 656-2 (FERM BP-6920), and its epitope is the 373-387th region in SEQ ID NO: 1.
 - 4. Anti-NAIP monoclonal antibody hnmc841, which is produced from hybridoma 841 (FERM BP-6921), and its epitope is the 841-1052nd region in SEQ ID NO:1.
 - 5. A method of assaying NAIP, which comprises contacting a marker-labeled anti-NAIP monoclonal antibody of claim 1 with a sample containing NAIP thereby binding the marker-labeled antibody with NAIP, and measuring signal strength of the marker in the bound structure.
 - 6. The method of assaying NAP of claim 5, wherein the anti-NAIP monoclonal antibody is any one of the monoclonal antibodies of claims 2 to 4.
- 7. The method of assaying NAIP of claim 5 or 6, wherein the marker is an enzyme, a radioactive isotope or a fluorescent colorant.

- 8. A method of assaying NAIP which comprises contacting an anti-NAIP primary antibody with a sample containing NAIP thereby binding the primary antibody with NAIP, further binding the bound structure with an anti-NAIP secondary antibody, and measuring signal strength of a marker bound with the secondary antibody, wherein:
- (1) the primary antibody and the secondary antibody are both the anti-NAIP monoclonal antibody of claim 1;
- (2) the primary antibody is the anti-NAIP monoclonal antibody of claim 1 and the secondary antibody is an anti-NAIP polyclonal antibody; or
- (3) the primary antibody is an anti-NAIP polyclonal antibody and the secondary antibody is the anti-NAIP monoclonal antibody of claim 1.
 - 9. The method of assaying NAIP of claim 8, wherein the primary antibody is immobilized on solid phase.
 - 10. The method of assaying NAIP of claim 8 or 9, wherein the anti-NAIP monoclonal antibody is any one of the monoclonal antibodies of claims 2 to 4.
 - 11. The method of assaying NAIP of claim 8, 9 or 10, wherein the marker is an enzyme, a radioactive isotope or a fluorescent colorant.
 - 12. A NAIP assay kit at least including:
 - (a) a plate on which an anti-NAIP primary antibody is immobilized; and
 - (b) an anti-NAIP secondary antibody labeled with a marker, wherein:
 - (1) the primary antibody and the secondary antibody are both the anti-NAIP monoclonal antibody of claim 1;
 - (2) the primary antibody is the anti-NAIP monoclonal antibody of claim 1 and the secondary antibody is an anti-NAIP polyclonal antibody; or
- (3) the primary antibody is an anti-NAIP polyclonal antibody and the secondary antibody is the anti-NAIP monoclonal antibody of claim 1.
 - 13 The NAIP assay kit of claim 1/2, wherein the anti-NAIP monoclonal

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antibody is any one of the monoclonal antibodies of claims 2 to 4.

- 14. The NAIP assay kit of claim 12 or 13, wherein the marker is a radioactive isotope or a fluorescent colorant.
- 15. The NAIP assaying kit of claim 12 or 13, wherein the marker is an enzyme and the kit further includes:
 - (c) a substrate which develops a color by the enzyme activity.
- 10 16. A NAIP assaying kit at least including:
 - (a) a plate on which an anti-NAIP primary antibody is immobilized;
 - (b) an anti-NAIP secondary antibody; and
 - (c) a marker to be bound with the secondary antibody, wherein:
 - (1) the primary antibody and the secondary antibody are both the anti-NAIP monoclonal antibody of claim 1;
 - (2) the primary antibody is the anti-NAIP monoclonal antibody of claim 1 and the secondary antibody is an anti-NAIP polyclonal antibody; or
 - (3) the primary antibody is an anti-NAIP polyclonal antibody and the secondary antibody is the anti-NAIP monoclonal antibody of claim 1.
 - 17. The NAIP assaying kit of claim 16, wherein the anti-NAIP monoclonal antibody is any one of the monoclonal antibodies of claims 2 to 4.
- 18. The NAIP assaying kit of claim 16 or 17, wherein the marker is a radioactive isotope or a fluorescent colorant.
 - 19. The NAIP assaying kit of claim 16 or 17, wherein the marker is an enzyme and the kit further includes:
 - (d) a substrate which develops a color by the enzyme activity.

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